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you might be wondering how can there be a science lab at home home is home i eat sleep play and do homework there a science lab is where scientists hang out discovering even more things for me to learn in school besides aren t all scientists guys with white coats and long gray beards who mutter things like $E=mc^2$ or ah ha i ve found the secret of living forever well not exactly scientists don t always work in laboratories don t necessarily wear

white coats and don't talk like they were starring in a sci fi thriller there are some scientists with long gray beards usually they are older men almost anyone can make scientific observations and do experiments even kids and anywhere that you make observations and perform experiments can be considered a science laboratory entomologists scientists who study insects do most of their work in forests jungles and backyards herpetologists scientists who study reptiles such as snakes and lizards hunt for their subjects where they live in wooded areas swamps and fields some astronomers scientists who study planets stars galaxies and everything else in the cosmos setup telescopes in their backyards in parks or on mountaintops these scientists study in field laboratories and so can your home can be your field laboratory did you ever wonder how certain things in your home worked when i was a youngster lots of years ago when the only good music was rock and roll long before walkman type tape players and cds i always wanted to know what made things work things like light switches refrigerators dish washers washing machines toilets sinks freezers door locks hinges vacuum cleaners coffee makers juicers windows and plumbing pipes after disassembling the easy part and reassembling the harder part lots of household stuff i learned that even the most complex of these items worked on some very basic principles all of them worked when i was able to put them back together properly because of science and applied science which is called technology once i looked at the simple components that make these items work they were easy or at least easier to understand this book will show you how to perform experiments and observations at home and help you figure out where and how science is used in your home scattered throughout these chapters you will find a safety symbol ask an adult to help you wherever you see this symbol the symbol indicates that the experiment is a little bit dangerous or difficult i'd hate to see you get discouraged or hurt while you are learning about science in your home throughout the book you'll also find words in italic type these words are defined in the glossary at the back of the book there are three other books in this series that explain how you can conduct scientific observations and experiments with material found in hardware stores housewares stores and supermarkets if you like this book and think your friends parents and teachers would like it the author's name is bob friedhoffer go to the library and check out the books or even better go to the bookstore and buy them if you don't like this book don't tell anyone

this new book will guide both the experimentalist and theoretician through their compulsory laboratory courses forming part of an undergraduate physics degree it shows students and interested readers the value and beauty within a carefully planned and executed experiment and will help them to develop the skills to carry out experiments themselves

explores such topics in physics as levers friction heat transmission and density with experiments using common household utensils

laboratory experiments can be a challenge for teachers in small schools or home schools this manual and the kit designed to accompany it are an effort to help solve this problem the hands on laboratory exercises have been designed with two principle goals in mind 1 educational challenge and 2 convenience for the teacher every experiment clearly teaches a scientific principle they cover a number of topics usually taught at the 11th or 12th grade

level the equipment has been chosen or in some cases developed by the authors to produce successful results and give the student a real learning experience this kit is only intended to cover the laboratory portion of a high school physics course the rest of the course would be covered in a standard text lab experiments introduction a scientific investigation introduction b scientific analysis 1 a recording timer the acceleration of gravity 2 newton s second law 3 the sum of vectors 4 acceleration on an inclined plane 5 potential and kinetic energy 6 coefficient of friction 7 work and power 8 projective motion 9 impulse and momentum 10 conservation of momentum 11 conservation of energy and momentum 12 mechanical advantage of a simple machine 13 hooke s law a spring constant 14 centripetal force 15 a pendulum 16 the speed of sound in air 17 specific heat of aluminum 18 latent heat of fusion 19 curved mirrors 20 refraction 21 lenses 22 wavelength of a laser beam 23 wavelengths of the visible spectrum 24 laser measurements 25 static electricity 26 an electronic breadboard 27 ohm s law 28 capacitors 29 diodes 30 transistors 31 magnetic fields 32 electric magnets electric motor

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